

CLAIM

What is claimed is:

1. An adjustable cup-holder comprising:

a bottom;

a handle, a lower end of the handle connecting the bottom; and

a horizontally flexible ring;

wherein the flexible ring and an upper end of the handle are in an adjustable connection for different dimensions of cups.

2. The adjustable cup-holder as cited in claim 1, wherein an end of the flexible ring connects the handle to form a fixing end, another end of the flexible ring is a free end, the free end is adjustable and fixed on the handle or the fixing end of the flexible ring.
3. The adjustable cup-holder as cited in claim 2 further comprises a buckling plate protruding from the upper end of the handle and a buckling cam setting on the handle, the fixing end of the flexible ring connects the buckling plate, a space between the buckling plate and the buckling cam is provided for the free end, the free end of the flexible ring is fixed to a position by way of turning the buckling cam.
4. The adjustable cup-holder as cited in claim 3, wherein the buckling cam is mounted on an axis elongated from the handle vertically or horizontally.
5. The adjustable cup-holder as cited in claim 3 further comprises a stirring rod mounted on the buckling cam.

6. The adjustable cup-holder as cited in claim 3 further comprises a protruding portion mounted on the buckling plate for keeping the cup on a correct position.
7. The adjustable cup-holder as cited in claim 3 further comprises a buckling head mounted on the upper end of the handle, a through hole is formed in the buckling head for inserting the free end of the flexible ring.
8. The adjustable cup-holder as cited in claim 7, wherein the through hole with a protrusion is formed in the buckling head, a plurality of holes are settled on the free end of the flexible ring to match with the protrusion for fixing the free end of the flexible ring.
9. The adjustable cup-holder as cited in claim 7, wherein a plurality of dents are formed in the buckling head, and a protrusion is formed on the free end of the flexible ring to match with one of the dents for fixing the free end of the flexible ring.
10. The adjustable cup-holder as cited in claim 8 or 9, wherein the protrusion is a tooth, a figure of the hole or the dent match with a figure of the tooth.
11. The adjustable cup-holder as cited in claim 8 or 9 further comprises the buckling cam on a handle head, the buckling cam matches with a horizontal protruding portion of the buckling head by means of a guiding structure, and then turning the buckling cam can fix the free end of the flexible ring in the through hole of the buckling head firmly.
12. The adjustable cup-holder as cited in claim 11, wherein the guiding structure is a pair of hook structure on the buckling cam, the buckling head has a pair of pin members and a pair of flexible plates, the flexible plates can move horizontally on the handle head, the hook structure hitches the two pin members of the buckling head.

13. The adjustable cup-holder as cited in claim 12 further comprises an elastic binder between the buckling head and the handle head.
14. The adjustable cup-holder as cited in claim 13, wherein the binder has a plurality of elastic curve clamping members.
15. The adjustable cup-holder as cited in claim 13, wherein the handle head, a middle of the binder and an inner surface of the buckling head have an arc surface respectively.
16. The adjustable cup-holder as cited in claim 1 further comprises a wedge plate in between the cup surrounded by the flexible ring and an upper end of the handle, the wedge plate and the upper end of the handle cooperate each other for moving up and down so as to loosening or tying the flexible ring.
17. The adjustable cup-holder as cited in claim 16 further comprises a through hole on the upper end of the handle for inserting the flexible ring, a side of the through hole is opened for appearing the flexible ring, a wedge hook portion is set on the wedge plate, the free end of the flexible ring is tied up while inserting the wedge downward.
18. The adjustable cup-holder as cited in claim 1, wherein a top cover protruding downward and out of a cylindrical body is set on a center of the bottom, a chassis protruding upward and out of a socket is below the top cover, a sucker is mounted on the chassis for sealing, the top cover and the bottom connect each other for moving up and down and not being dismantled.
19. The adjustable cup-holder as cited in claim 18, wherein a wall of the cylindrical body has two stopping slots, the stopping slots symmetrically cooperate with a plurality of stopping portions located on an upper portion of the socket of the chassis.

20. The adjustable cup-holder as cited in claim 18, wherein a supporting plate elongated from the handle or the top cover is set under the handle.
21. The adjustable cup-holder as cited in claim 18, wherein a plurality of baffles protrudes upward and are located around a lower end of the cup on the top cover for stopping movement of the cup.
22. The adjustable cup-holder as cited in claim 21, wherein the baffle is shaped as ladder figure or bevel figure and mounted on the top cover symmetrically.
23. The adjustable cup-holder as cited in claim 21, wherein a plurality of line-tooth fasteners are under the baffles, the line-tooth fasteners are set on a plurality of serrate slots with plural serrate line teeth on the top cover and match with the serrate line teeth of the serrate slots, the line-tooth fasteners are moveably mounted on the serrate slots with plural serrate line teeth by means of an oscillating axis thereon, and around a central portion of each line-tooth fastener is an oscillating axis, a center of the oscillating axis is a support point for the oscillation, plural spring pieces of the line-tooth fasteners touch plural walls of the serrate slots, therefore the serrate line teeth of the line-tooth fasteners are pushed to match with the serrate line teeth by the spring pieces, a plurality of curve baffles are elongated upward and set on the line-tooth fasteners for blocking an outer of a lower portion of the cup.
24. The adjustable cup-holder as cited in claim 21, wherein a plurality of arc sliding blocks under the baffle are in plural arc slots respectively, and sliding back and forth therein.
25. The adjustable cup-holder as cited in claim 24, wherein outer of the baffle with the sliding blocks have plural stirring plates and protruding blocks under the sliding blocks.

26. The adjustable cup-holder as cited in claim 21, wherein a plurality of converse clamping blocks are under the baffles, and plural arc slots are set on the top cover, the converse clamping blocks are in the arc slots, each of the converse clamping blocks is loosed to move while applying a force with a direction, otherwise, applying a force with an opposite direction or a stopping plate being pressed by the cup, the converse clamping block is then against the arc slot.
27. The adjustable cup-holder as cited in claim 26, wherein each of the converse clamping blocks has two sharp tips, an outer of the converse clamping block has a stirring plate, and a protruding block is set under the converse clamping block.
28. The adjustable cup-holder as cited in claim 18, wherein a clamping arm frame is moveably mounted on the top cover, a left clamping arm and a right clamping arm are pivotally connected to the clamping arm frame, a movable non-return member is in between two tip portions of outer portions of the left clamping arm and the right clamping arm, while the non-return member moves away from the left clamping arm and the right clamping arm, the left position between two tip portions of outer portions of the left clamping arm and the right clamping arm can contain or take off the cup, otherwise, the cup is clamped tightly.
29. The adjustable cup-holder as cited in claim 18, wherein the top cover has a narrow slot with a sliding block, the sliding block has a flange beneath, an rotatable eccentric cam is mounted on the sliding block, while the sliding block is pushed to touch an outer edge of a lower portion of the cup, the sliding block is fixed firmly to stop the cup by means of turning the eccentric cam.
30. The adjustable cup-holder as cited in claim 21, wherein the baffle is shaped as pin-type, a moving plate is placed above the top cover, and an adjustable plate is mounted above the moving plate, three radial

seams are symmetrically distributed over the moving plate, an outer side of the moving plate relative to the handle is set a cam positioning device, the adjustable plate has three symmetrical involute arc seams, three pin-type baffles penetrate through the involute arc seams and the radial seams and slide therein, while the baffles hold the bottom of the cup, the cam positioning device fixes the moving plate and the adjustable plate relatively to the top cover.

31. The adjustable cup-holder as cited in claim 30, wherein the cam positioning device includes a T-type bonding block and the eccentric cam, a vertical portion of the T-type bonding block is through an axis and connects the eccentric cam, a horizontal portion of the bonding block is through a long hole of the top cover for pressing onto an inner surface of the top cover, each of the pin-type baffle has a ring located on an upper side of the adjusting plate, a lower end of the baffle penetrates through the arc seam and the radial seam to connect a small round cover, which is larger than the seams.